**Summary of Engineering and Planning (E&P) Subcommittee December 4, 2014 Meeting**

**for MWPAAC General Meeting on January 28, 2015**

**Conveyance System Improvements Update**

King County Staff summarized the local agencies’ meetings that occurred during the late summer and fall 2014 (see <http://www.kingcounty.gov/environment/wastewater/MWPAAC/Committees/EP.aspx>). The purpose of the meetings was to verify King County’s flow monitoring results and future growth projections with the local agencies’ flow conditions and growth projections, and to discuss the initial results of the regional needs assessment specific to each agency. Examples from around the region were used to demonstrate the verification process. The next steps will be the development of conceptual projects and planning level cost estimates, starting in early 2015, followed by conceptual project prioritization (“Regional Needs Assessment”). Capacity constraints in the conveyance system will be assumed to be solved by one of the following 6 methods: parallel pipes, replacement pipes, storage for peak flows, pump station upgrades, pump station replacements, and flow diversion. Reduction of infiltration/inflow is not included in the development of project alternatives, although once a project is defined, the impact of I/I reduction will be assessed for cost-effectiveness.

The major steps in evaluating the conceptual conveyance projects are listed below:

* Identify year when the 20-year peak flow projection exceeds the current capacity.
* Determine whether to parallel or replace an existing pipe based on condition assessment of existing pipe and feasibility of constructing a new parallel pipe.
* Evaluate whether storage may be more cost-effective than a parallel pipe.
* Determine pipe size for a specific project based on 20-year peak flow plus a 25% safety factor applied to the projected flows. This is only used for sizing the pipe in the project area. The safety factor applied flows are not transmitted downstream and cumulative in downstream pipe sizing.
* Develop conceptual routes, considering stream and major street crossings, topography, groundwater conditions, wetlands and water bodies, rights-of-way, and existing parcel uses.
* Develop cost estimates using the software program Tabula and King County cost factors.
* Review draft projects with the affected local agencies.

King County Staff anticipates completing the Regional Needs Assessment in 2015, with submittal to the King County Council in 2016.

**2015 Engineering and Planning Subcommittee Draft Work Plan**

The Subcommittee discussed some additional topics to be added to the work plan items discussed at the November 5, 2014 meeting. A draft workplan will be prepared for consideration at the January 8, 2015 E&P Subcommittee meeting. There are a significant number of potential items to be worked on in 2015 so the January meeting will need to focus the efforts on items of greatest interest/importance. The actual work plan will be presented and refined at the Executive Board Meeting in February 2015.

**Overview of West Point NPDES Permit**

This agenda item was deferred to January 2015 due to time constraints.

**Questions?**

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